

California High School Exit Examination

Mathematics Teacher Guide 2002

Standards and Assessment Division
California Department of Education



California High School Exit Examination

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Contents

Introduction	1
Section 1. About the CAHSEE	3
Section 2. CAHSEE Questions and Answers for Teachers	13
Section 3. Assessing the CAHSEE Mathematics Standards	18
The Number Sense Strand	19
The Statistics, Data Analysis, and Probability Strand	32
The Algebra and Functions Strand	44
The Measurement and Geometry Strand	57
The Algebra 1 Strand	71
The Mathematical Reasoning Strand	82
Section 4. Suggested Process for Using the CAHSEE to Increase Student Achievement	91
Appendix A CAHSEE Mathematics Blueprint	99
Appendix B Sample Worksheet and Planning Tool	104

Introduction

The California High School Exit Examination (CAHSEE) Teacher Guides for English Language Arts (ELA) and Mathematics are designed to provide comprehensive and accessible information to assist teachers in preparing their students for the CAHSEE. This guide contains four sections, and teachers are encouraged to reproduce individual sections or all of the guide for classroom use. Districts and school personnel also are encouraged to use this material in their staff development activities.

- **Section 1**, “About the CAHSEE,” provides an overview of the purpose and content of the CAHSEE. This section also includes a set of checklists teachers may use when writing test questions for classroom use, information about security for the CAHSEE, and a glossary of terms used in this guide.
- **Section 2**, “CAHSEE Questions and Answers for Teachers,” provides answers to frequently asked questions about the administration and scoring of the CAHSEE.
- **Section 3**, “Assessing the CAHSEE Mathematics Standards,” is designed to give detailed information about how the California content standards for mathematics are tested on the CAHSEE. The mathematics standards are divided into six strands:

- Number Sense
- Statistics, Data Analysis, and Probability
- Algebra and Functions
- Measurement and Geometry
- Algebra 1
- Mathematical Reasoning

For each of these strands, section 3 provides a summary of the essential knowledge and skills covered in the strand, followed by a detailed description of each content standard within the strand. This discussion includes information about how the standard may be tested. Several CAHSEE released test questions are also discussed.

- **Section 4**, “Suggested Process for Using the CAHSEE to Increase Student Achievement,” details suggested processes for using the California content standards and the released test questions to help implement standards-based instruction in the classroom.

The **appendixes** to the Teacher Guide provide the following materials for easy reference:

- Appendix A: The CAHSEE mathematics blueprint (the number of test questions for each content standard)
- Appendix B: A worksheet and planning tool for using the CAHSEE to increase student achievement